

REMARKS

The present amendment is in response to the Office Action dated April 04, 2007. By the present amendment, claims 1, 5, 11, 12, 13, 20, 29, 30, 43, 51, 53, 56, 57, and 61-64 have been amended. Claims 15, 33-38, 40-42, and 52 have been cancelled. New claims 67-72 have been added. Accordingly, claims 1-8, 11-14, 17-26, 29-32, 43-44, 46, 49-51, 53-57, 59, and 61-72 are pending in the present application. Reconsideration and allowance of pending claims 1-8, 11-14, 17-26, 29-32, 43-44, 46, 49-51, 53-57, 59, and 61-72 in view of the following remarks are respectfully requested.

A. Rejection under 35 USC 132(a)

The Examiner objected to the amendment filed March 26, 2007 because of amendments reciting "receiving, from the GPS enabled device, decoded position requiring at least some processing to determine a position of the GPS enabled device". Applicants have amended the claims to remove such language. Applicants respectfully submit, however, that this feature did not introduce new matter and that it is well supported by the original specification. For example, paragraph [0038] describes a procedure where the decoded GPS signals are sent to the BSC for a position determination. The specification as filed, therefore, included a description of a base station receiving decoded position signals that required at least some processing to determine the position of the GPS enabled device.

B. Claims 1-5, 11-13, 15, 17, 33, 34, and 40-41

The Examiner rejected claims 1-5, 11-13, 15, 17, 33, 34, and 40-41 under 35 USC §103(a) as being unpatentable over US Patent No. 6,411,811 ("Kingdon") in view of U.S. Pub. No. 2002/0111171 ("Boesch"). Claims 33, 34, and 40-41 are no longer pending. Applicant respectfully submits that neither Kingdon, nor Boesch, nor a combination of the two, teaches or suggests all the limitations of any one of independent claims 1 or 12 and that claims 2-5, 11, 13, 15 and 17 are allowable for at least the reason that these claims depend from an allowable base claim.

Claim 1

As amended claim 1 recites "receiving, from a GPS satellite, GPS satellite information through an antenna at the base station". Applicants respectfully submit that this feature is not disclosed in Kingdon. Kingdon teaches to receive GPS satellite information at an MLC and not through an antenna at the base station. (Kingdon, Col. 4, line 63 to col. 5, line 14). Boesch teaches to receive GPS information at a mobile device. (Boesch, page 4, [0035], [0037]) Boesch also discusses receiving information from GPS satellites at reference receivers. Boesch does not suggest that GPS satellite information can be received from satellites through an antenna at the base station. Accordingly, applicants respectfully submit that neither Kingdon, nor Boesch, nor a combination of the two, teaches or suggests "receiving, from a GPS satellite, GPS satellite information through an antenna at the base station".

As amended, claim 1 further recites "receiving, from the GPS enabled device, decoded position signals generated by the GPS enabled device using the GPS satellite information". Applicants respectfully submit that neither Kingdon, nor Boesch, nor a combination of the two, teaches or suggests this feature. Kingdon teaches to transmit position information (e.g. latitude and longitude) from the mobile station 200 and does not teach or suggest sending decoded satellite signals. Decoded position signals are used to calculate a position but are not position values such as latitude and longitude. Boesch teaches to receive GPS assistance information at the mobile device and determine the position at the mobile device. There is no suggestion that the device position is transmitted from the base station.

Accordingly, applicants respectfully submit that the combination of references does not teach or suggest at least the three features discussed above and that claim 1 is allowable.

Claims 2-8 and 11

Claims 2-8 and 11 depend from claim 1 which applicants respectfully submit is allowable. Accordingly, these claims are at least allowable for the reason that the claims depend from an allowable base claim.

Claim 12

Claim 12 recites a method comprising "receiving GPS satellite information from the base station at a time that is not associated with a position request, the GPS satellite information received through an antenna as the base station". As discussed with reference to claim 1, neither Kingdon nor Boesch teach or suggest receiving GPS satellite signals through an antenna at the base station.

Claim 12 further recites "decoding the received position signals to generate decoded position signals" and "transmitting the decoded position signals to the base station". Applicants respectfully submit that neither Kingdon, nor Boesch, nor a combination of the two, teaches or suggests this feature. As discussed above, Kingdon teaches to transmit the position from the mobile station such as latitude and longitude and does not discuss sending decoded position signals. There is no discussion in Boesch related to transmitting decoded position signals.

Claims 13-15 and 17-19

Claims 13-15 and 17-19 depend from claim 12 which applicants respectfully submit is allowable. Accordingly, these claims are at least allowable for the reason that the claims depend from an allowable base claim.

C. Claims 20-22 and 29 under 35 USC §103(a)

The Examiner rejected claims 20-22 and 29 under 35 USC §103(a) as being unpatentable by US Patent No. 6,525,689 ("Dooley") in view of U.S. Pub. No. 2002/0111171 ("Boesch"). Applicants respectfully submit that these references do not teach or suggest all of the limitations of claim 20 and that claims 21-26 and 29-32 are at least allowable for the reason that these claims depend from an allowable base claim.

Claim 20 recites "a transmitter configured to transmit the received GPS satellite information to a GPS enabled device at a time that is not associated with a position request." Applicants respectfully submit that neither Dooley, nor Boesch, nor a combination of the two, teaches or suggests this feature. Dooley teaches to modify the GPS information received through the GPS receiver in order to provide the mobile unit with GPS information that reflects the GPS signal characteristics as would be observed at an estimated location of the mobile unit. (Column 2, lines 35-38). The new GPS information is transmitted to the mobile unit. Accordingly, Dooley does not teach to transmit the "received GPS satellite information". Boesch does not teach to transmit GPS information that is received through a GPS receiver at a base station. As shown in FIG. 1, the BS 12 receives information from a GPS reference receiver 22 and does not include a GPS receiver. Accordingly, the any GPS information transmitted from the base station in Boesch is not "received GPS satellite information" that is received through a GPS receiver at the base station.

Claim 20 further recites "a receiver configured to receive decoded position signals from the GPS enabled device." Applicants respectfully submit that neither Dooley, nor Boesch, nor a combination of the two, teaches or suggests this feature. Dooley teaches to determine position at the mobile unit based on modified GPS signals received from the base station. There is no discussion in Dooley regarding the transmission of decoded position signals from the mobile unit to the base station. For support that this feature is shown in Dooley, the Examiner cites to col. 5, lines 17-24. (See Office Action, page 11, lines 6-9). This section in Dooley, however, is directed to calculations modifying the Doppler shift and current code pulse of GPS satellite signals and does not include any discussion regarding transmitting decoded position signals. Boesch teaches to determine position at the mobile unit and does not include any discussion of receiving decoded position signals at a base station from a GPS enabled device.

Claim 20 further recites "the base station is configured to determine a position of the GPS enabled device based on the received decoded position signals, and to transmit the determined position to the GPS enabled device." Applicants respectfully submit that neither Dooley, nor Boesch, nor a combination of the two, teaches or suggests this feature. Dooley teaches to determine position at the mobile unit. There is no discussion in Dooley regarding the determination of position at the base station. For support that this feature is shown in Dooley, the Examiner cites to col. 5, lines 17-21. (see Office Action, page 11, lines 10-12). This section in Dooley is directed to calculations for modifying the Doppler shift and current code pulse of GPS satellite signals and does not include any discussion regarding the determination of position at a base station. Boesch teaches to determine position at the mobile unit and does not include any discussion of determining position at a base station.

Claims 21-26 and 29-32

Claims 21-26 and 29-32 depend from claim 20 which applicants respectfully submit is allowable. Accordingly, these claims are at least allowable for the reason that the claims depend from an allowable base claim.

D. Claims 43, 46-49, 51-54, and 59-65

The Examiner rejected claims 35, 43, 46-49, 51-54, and 59-65 under 35 USC §103(a) as being unpatentable over US Patent No. 6,411,811 ("Kingdon") in view of U.S. Pub. No. 2002/0111171 ("Boesch"), further in view of US Patent No. 6,525,689 ("Dooley"). Claims 35, 47, 48 and 52 are no longer pending. Applicants respectfully submit that the references do not teach or suggest all of the limitations of either of independent claims 43 or 51 and that dependent claims 44, 46, 49-50, 53-57, and 59-66 are allowable for at least the reason that these claims depend from an allowable base claim.

Claim 43

Claim 43 recites a transmitter configured to transmit the decoded position signals to the base station". Applicants respectfully submit that neither Kingdon, nor Boesch,

nor Dooley, nor any combination of the three, teaches or suggests this feature. As discussed above with reference to claim 1 Kingdon teaches to transmit the actual position (e.g. latitude and longitude) of the mobile station 200 from the mobile station 200. (Column 5, lines 18-20) and does not suggest to send decoded position signals. Boesch does not discuss sending decoded position signals from the mobile terminal. Dooley teaches to determine position at the mobile unit based on modified GPS signals received from the base station. There is no discussion in Dooley regarding the transmission of decoded position signals from the mobile unit to the base station.

Claim 43 also recites that the receiver is further configured to "receive the position determined from the decoded position signals from the base station". Applicants respectfully submit that neither Kingdon, nor Boesch, nor Dooley, nor any combination of the three, teaches or suggests this feature. Although Kingdon suggests that the LA may be within the MS 200, this does not show that the position of the GPS enabled device is transmitted to the mobile device. Since the position is determined by the mobile station in Kingdon, there is no reason to receive the position from a base station. Kingdon teaches away from the invention by specifying that the position is determined by the mobile device. Further, Kingdon does not suggest that the position is determined from the decoded position signals that were transmitted to the base station. Boesch teaches to receive GPS assistance information at the mobile device and determine the position at the mobile device. There is no suggestion that the position device position is transmitted from the base station. Dooley teaches to determine position at the mobile unit. There is no discussion in Dooley regarding the determination of the position elsewhere. The position is not received at the mobile unit in Dooley.

Claims 44, 46, and 49-50

Claims 44, 46, and 49-50 depend from claim 43 which applicants respectfully submit is allowable. Accordingly, these claims are at least allowable for the reason that the claims depend from an allowable base claim.

Claim 51

Claim 51 recites a system that includes a GPS enabled device comprising a "transmitter configured to transmit the decoded position signals to the base station". As discussed above with reference to claim 43, applicants respectfully submit that neither Kingdon, nor Boesch, nor Dooley, nor any combination of the three, teaches or suggests this feature.

Claims 53-57, 59 and 61-66

Claims 53-57, 59 and 61-66 depend from claim 51 which applicants respectfully submit is allowable. Accordingly, these claims are at least allowable for the reason that the claims depend from an allowable base claim.

E. Conclusion

For all the foregoing reasons, an allowance of claims 1-8, 11-14, 17-26, 29-32, 43-44, 46, 49-51, 53-57, 59, and 61-72 pending in the present application is respectfully requested. If necessary, applicant requests, under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application and to charge the fees for a large entity under 37 CFR 1.17(a). The Director is authorized to charge any additional fee(s) or any underpayment of fee(s) or credit any overpayment(s) to Deposit Account No. 50-3001 of Kyocera Wireless Corp.

Respectfully Submitted,

Dated: July 26, 2007

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